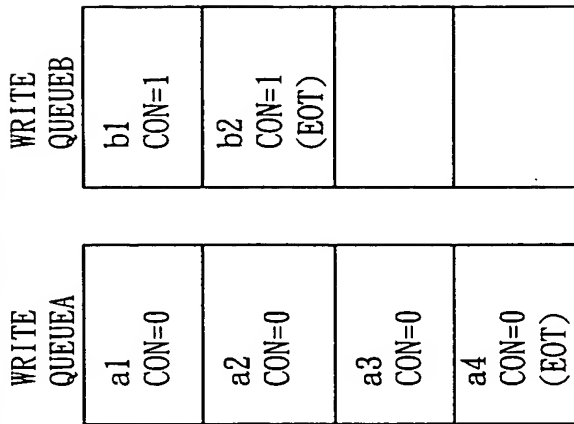
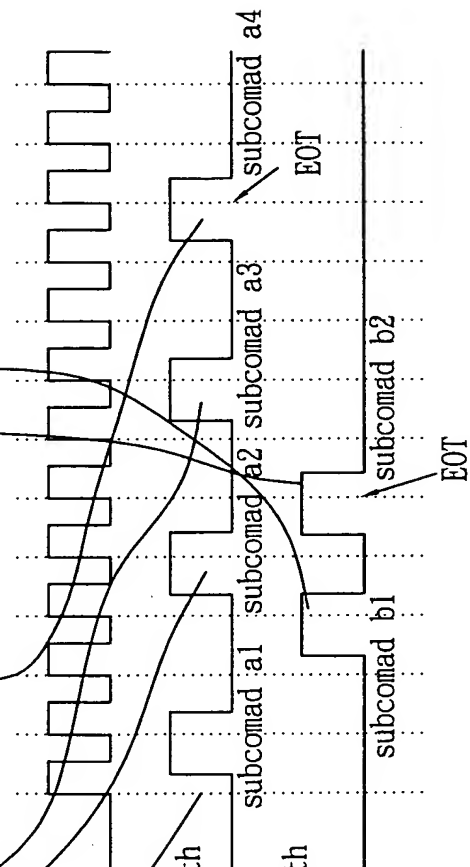
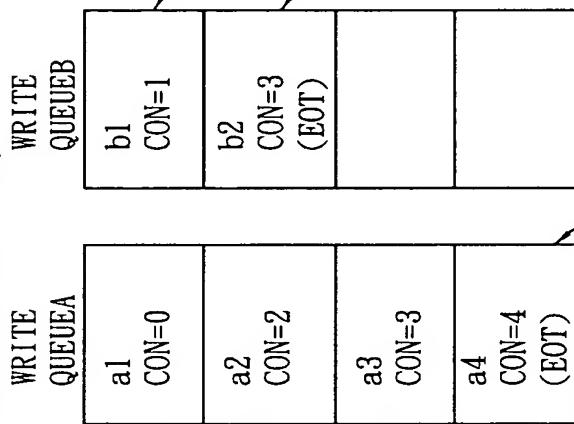


Consuming ordering will be
a1 --> a2 --> a3 --> a4 --> b1 --> b2
(subcommand of a posted transaction
with the same CON)



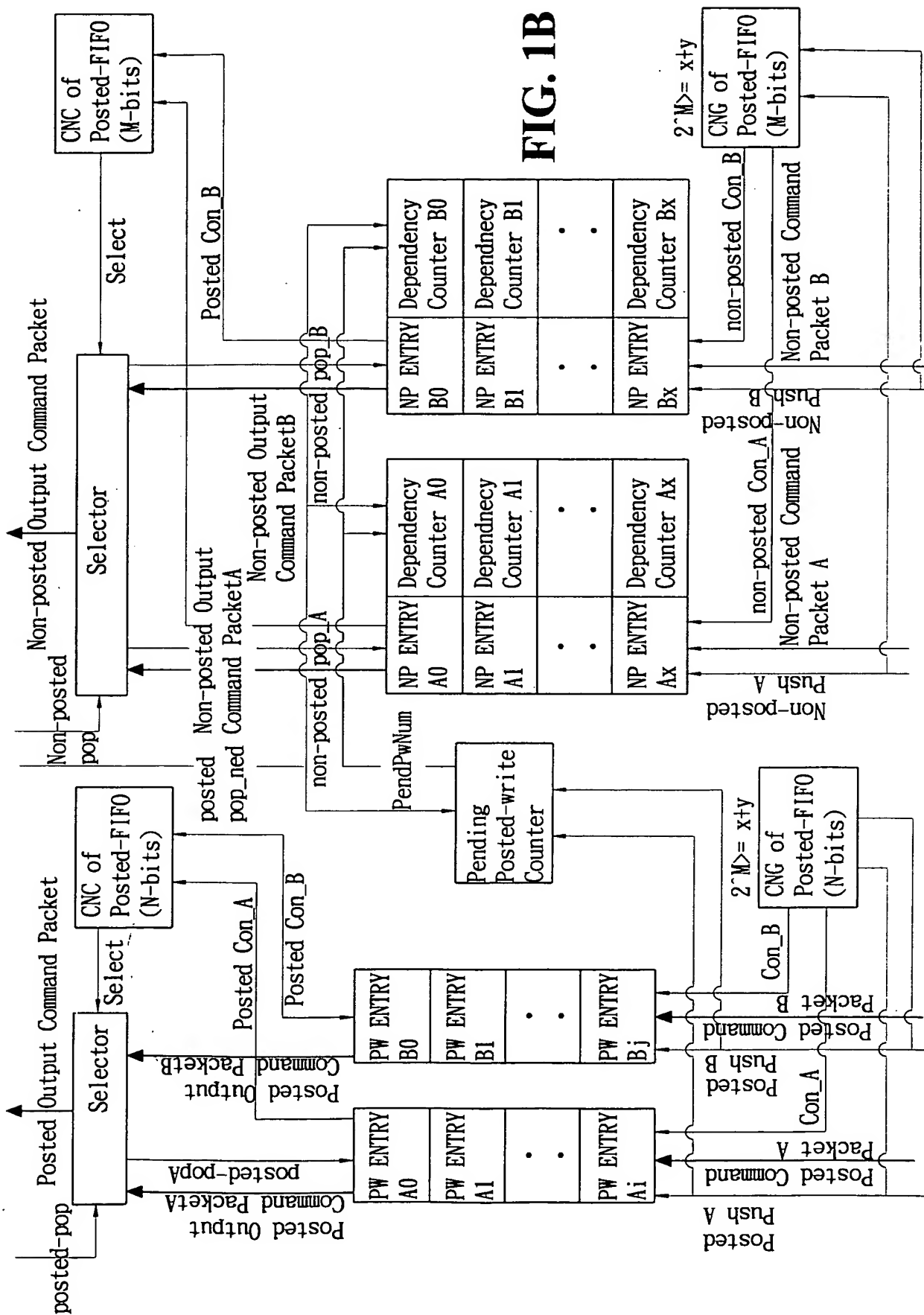
Consuming ordering will be
a1 --> b1 --> a2 --> b2 --> a3 --> a4
(subcommand of a posted transaction
with different CON)



Push Event of a write transaction with
longer data length

Push Event of a write transaction with
shorter data length

FIG. 1A



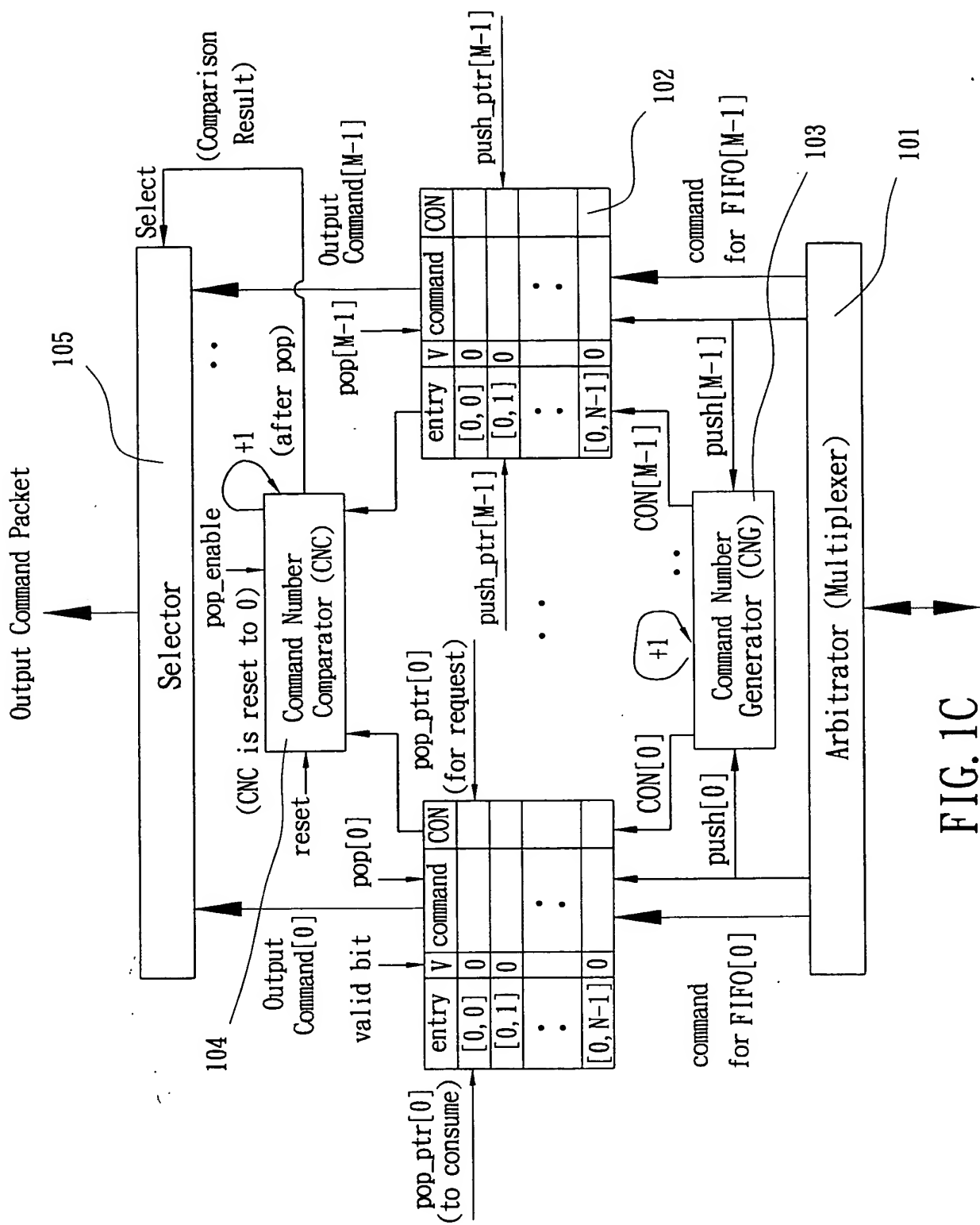


FIG. 1C

10003168.1.140.1

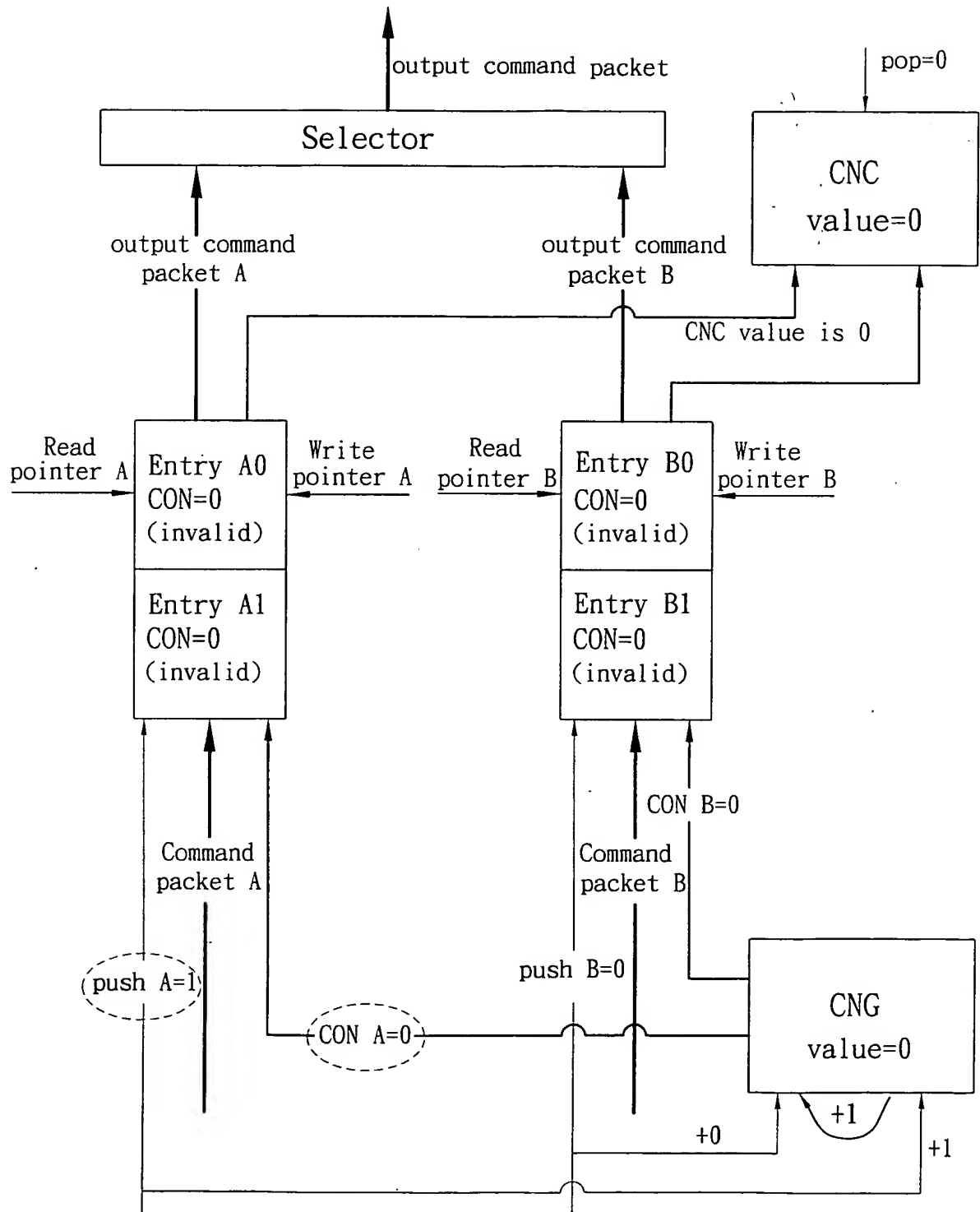


FIG. 2A

10003158-11401

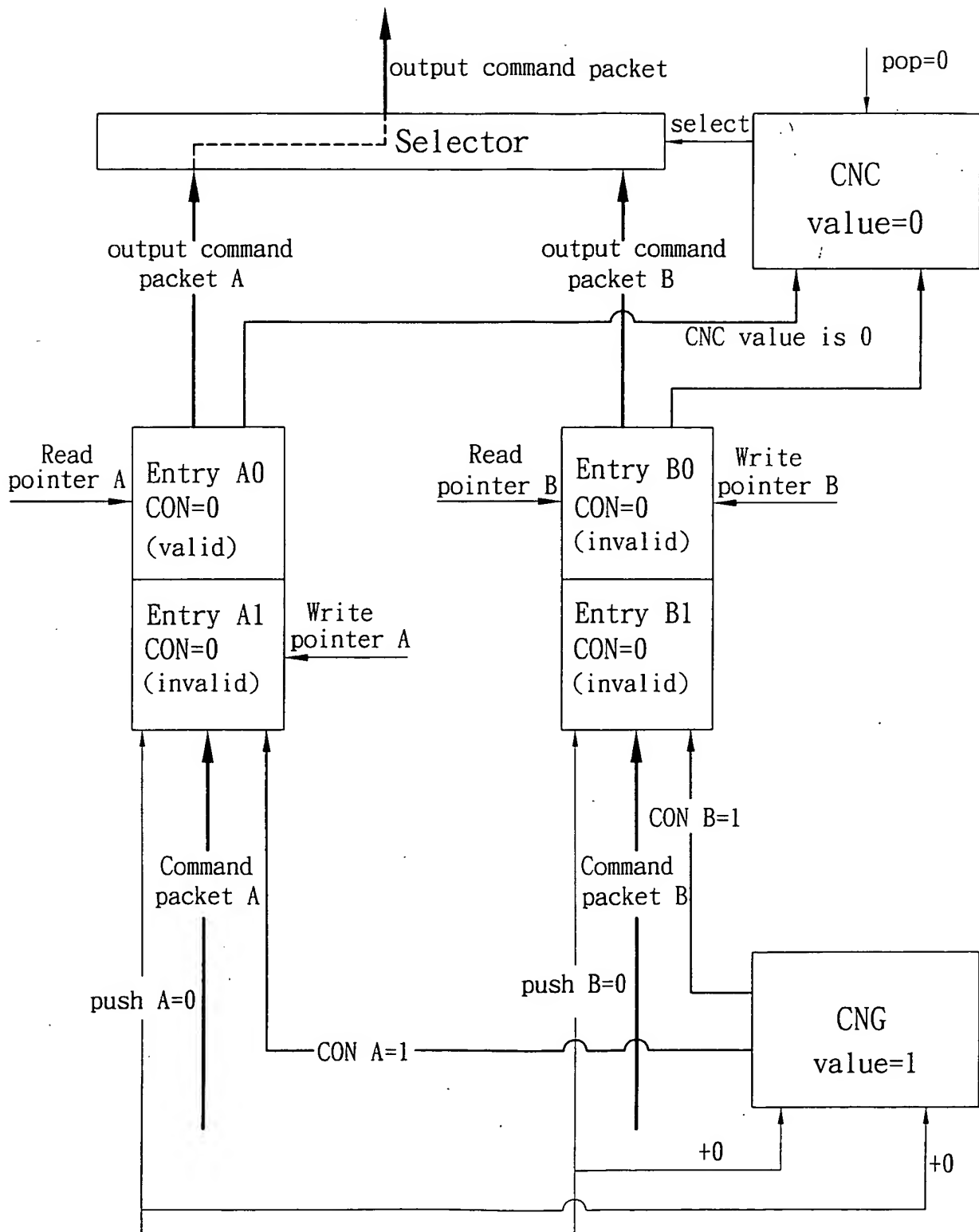


FIG. 2B

10003153-114-01

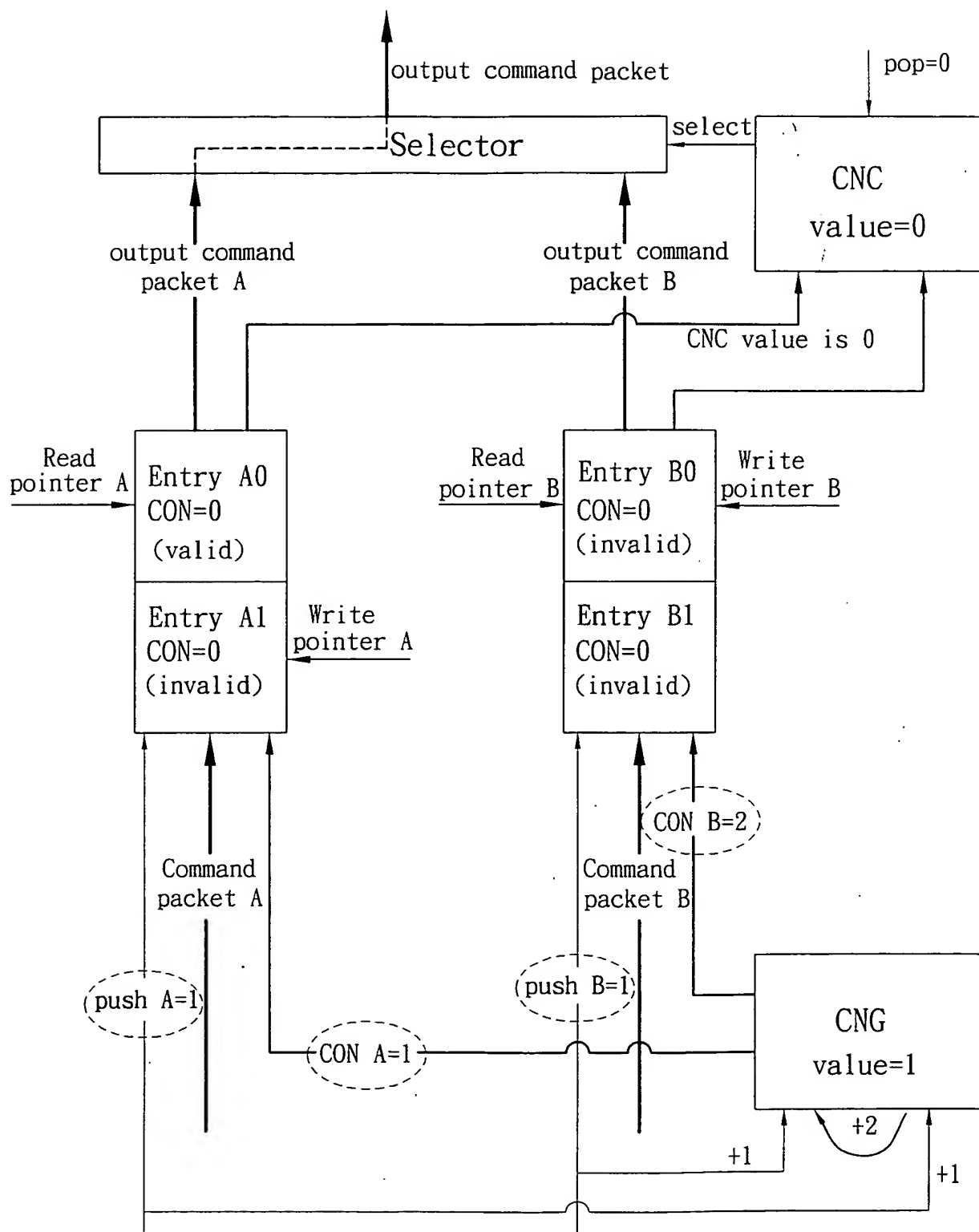


FIG. 2C

1003453-11401

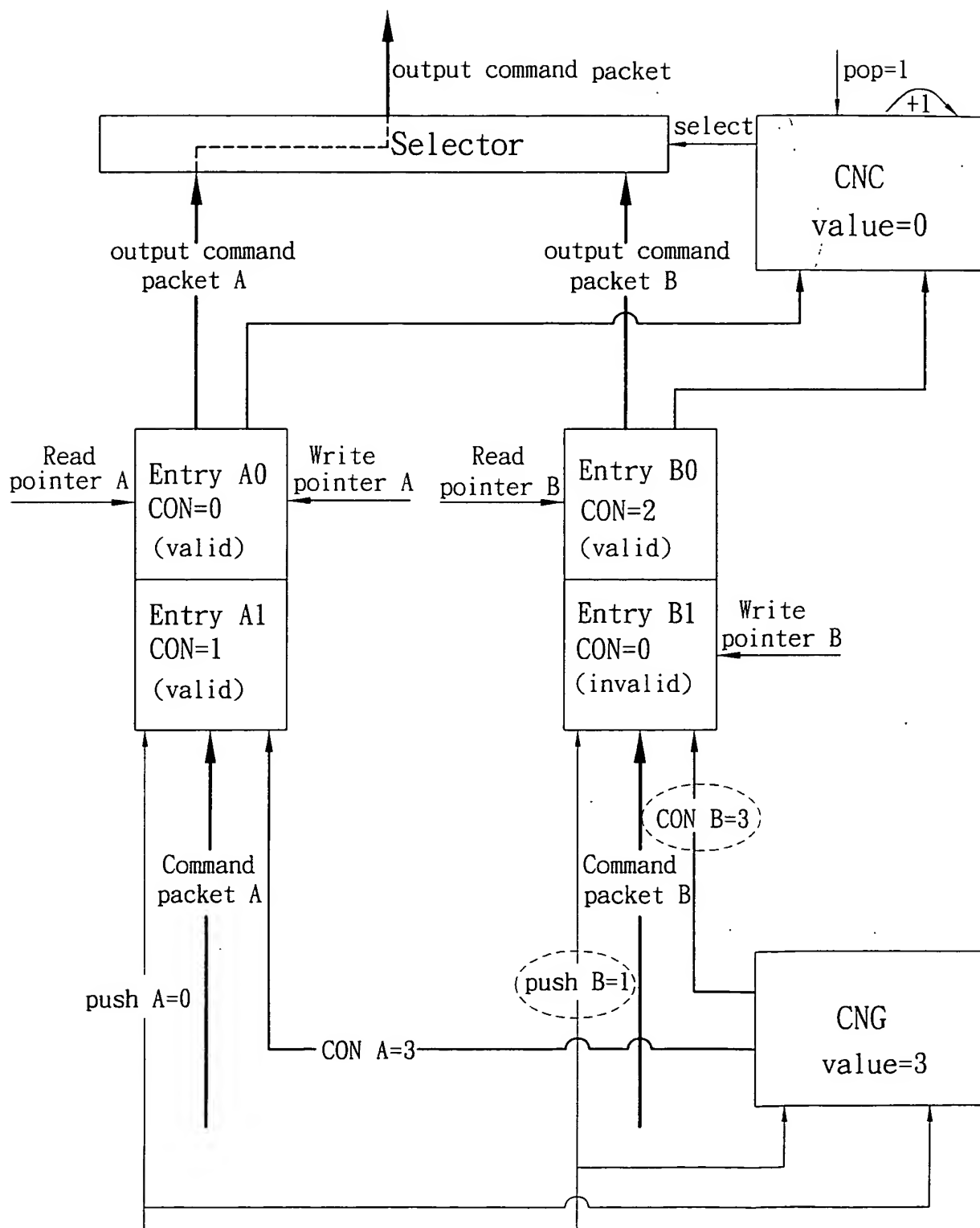


FIG. 2D

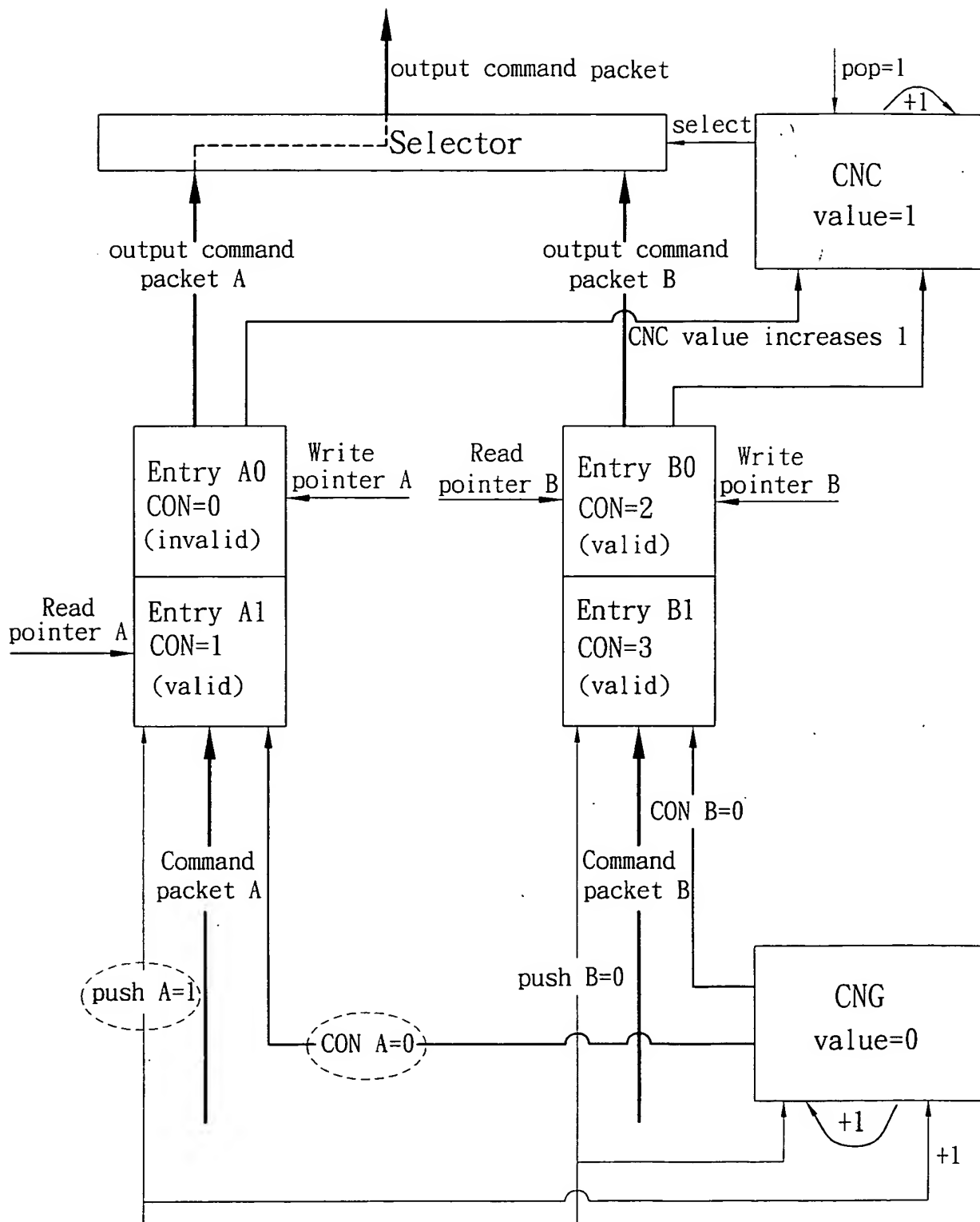


FIG. 2E

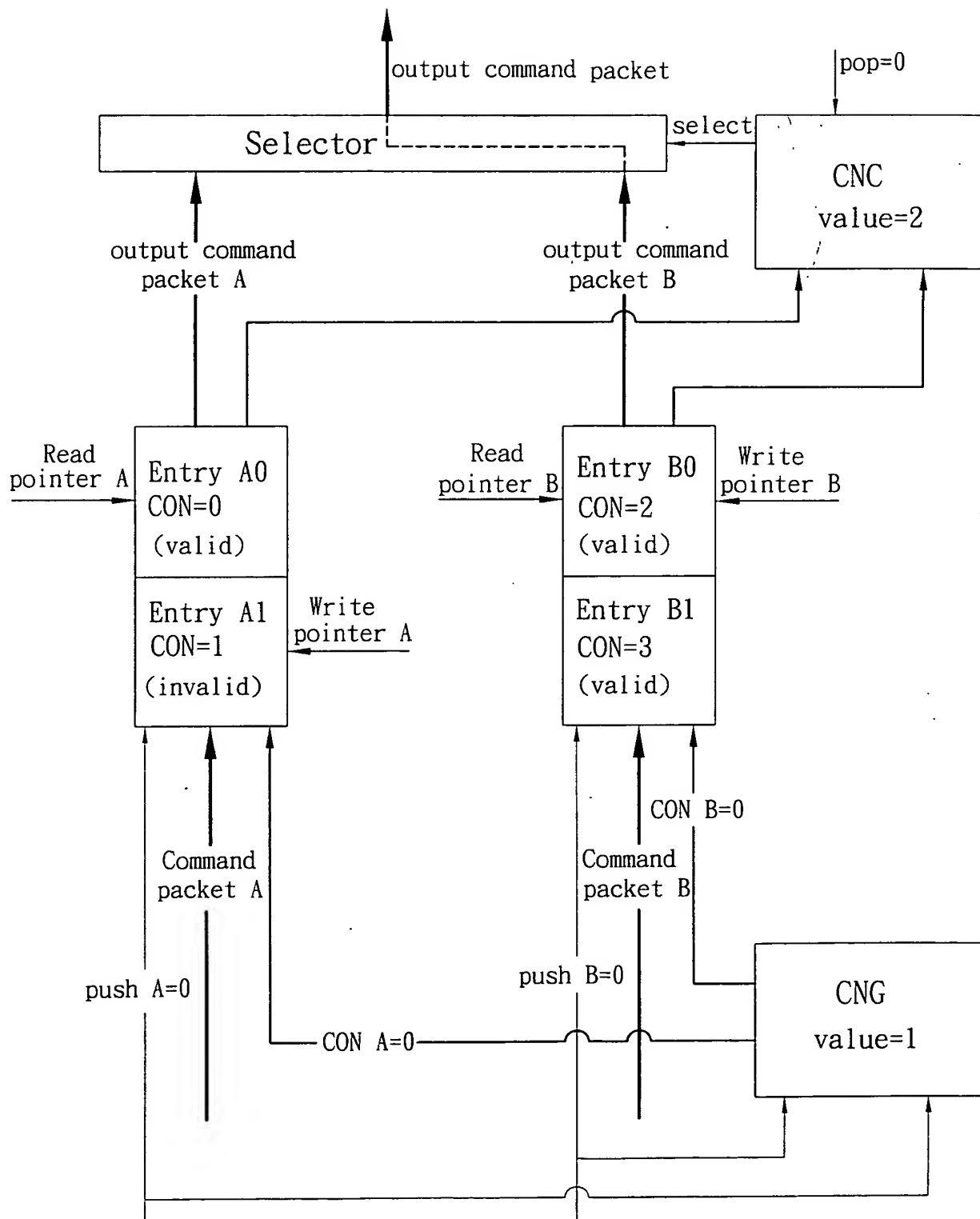


FIG. 2F

The diagram illustrates a command packet processing system with two parallel channels, A and B. Channel A includes a 'Read pointer A' and 'Write pointer A'. Channel B includes a 'Read pointer B' and 'Write pointer B'. Both channels have two 'CON=0 (invalid)' blocks. Channel A receives 'Command packet A1' and 'Command packet A2'. Channel B receives 'Command packet B1' and 'Command packet B2'. A 'Selector' block at the top receives 'output command packet A' and 'output command packet B' and outputs an 'output command packet'. A 'CNC value=0' block is connected to the 'Selector' and 'CNC value=0' block. A 'CNG value=0' block is connected to the 'CNC value=0' block and has a '+2' increment. Dashed ovals indicate 'push A1=1', 'push A2=1', 'push B1=1', and 'push B2=1'. A dashed oval labeled 'CON A=0' is connected to the 'CNC value=0' block.

FIG. 3A

10003168 11404

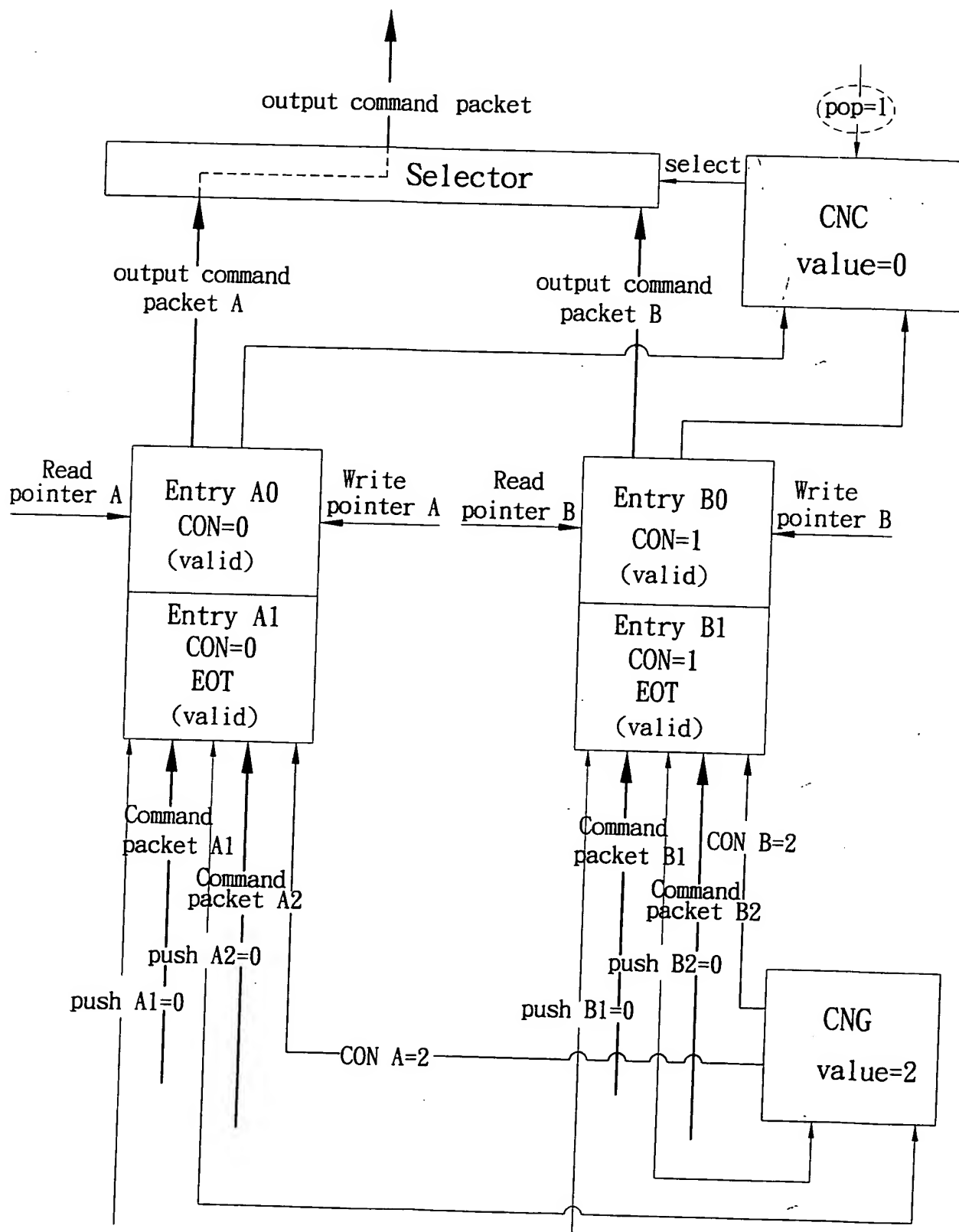


FIG. 3B

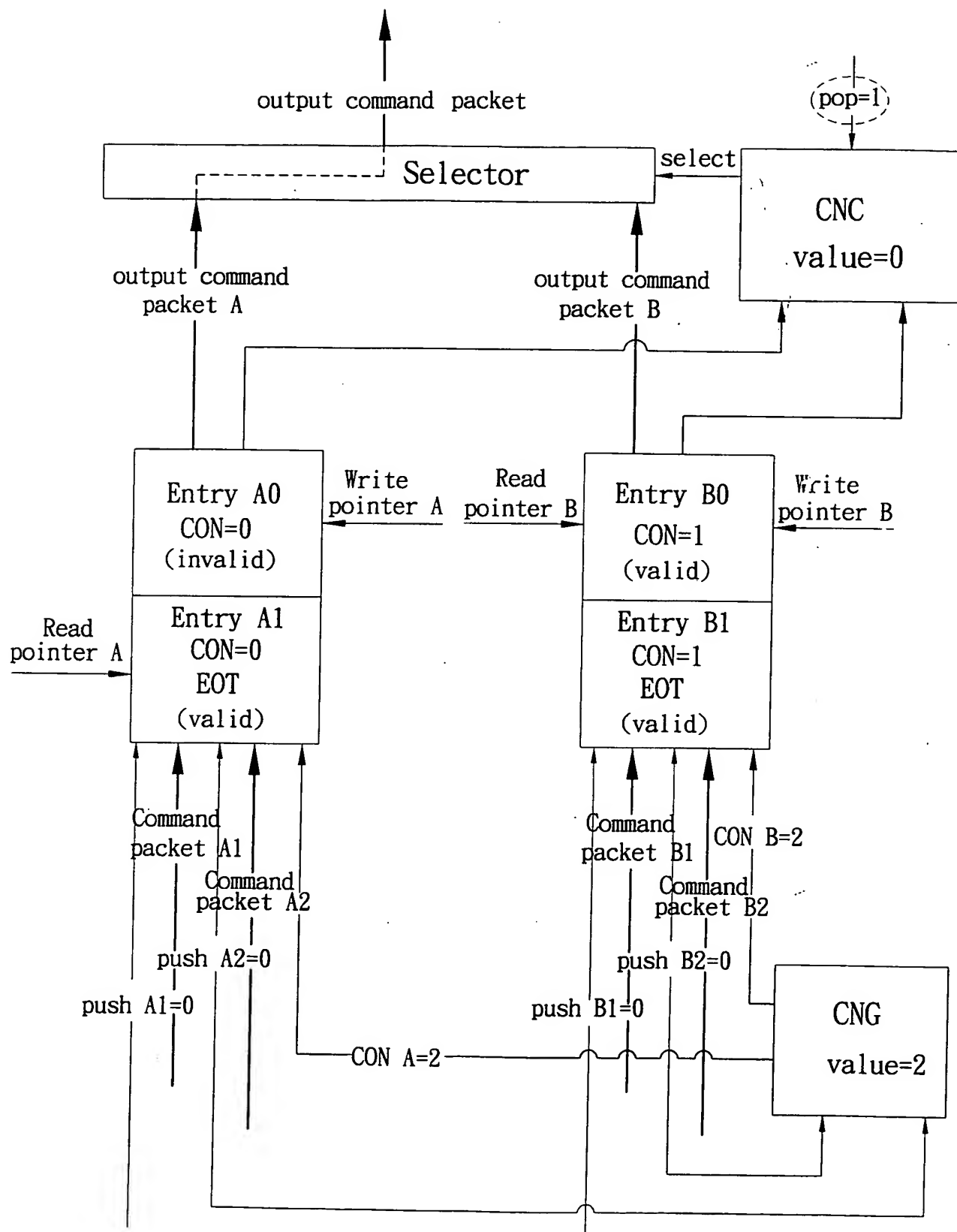


FIG. 3C

1000153 111401

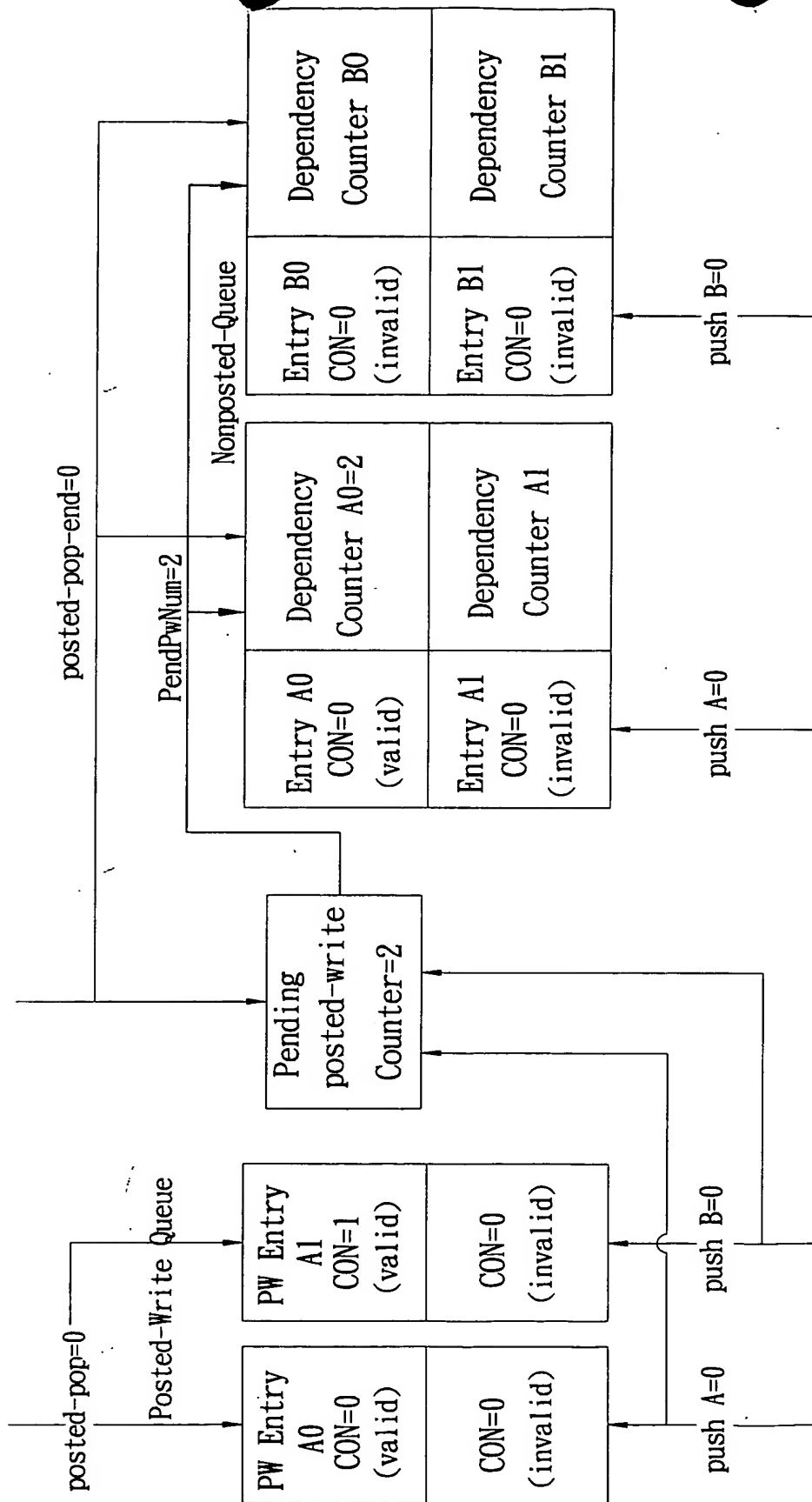


FIG. 4A

100-41611-14

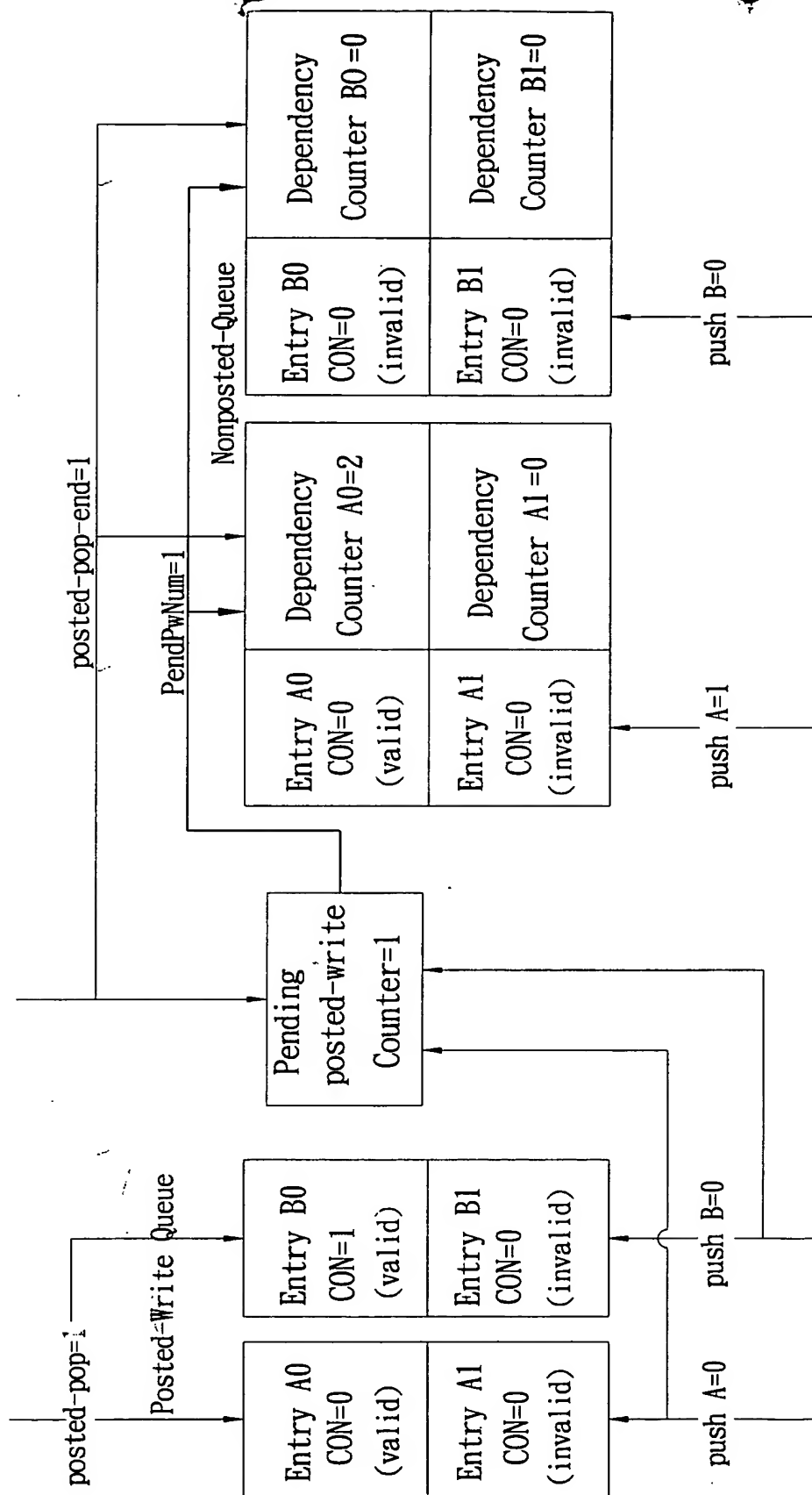


FIG. 4B-1

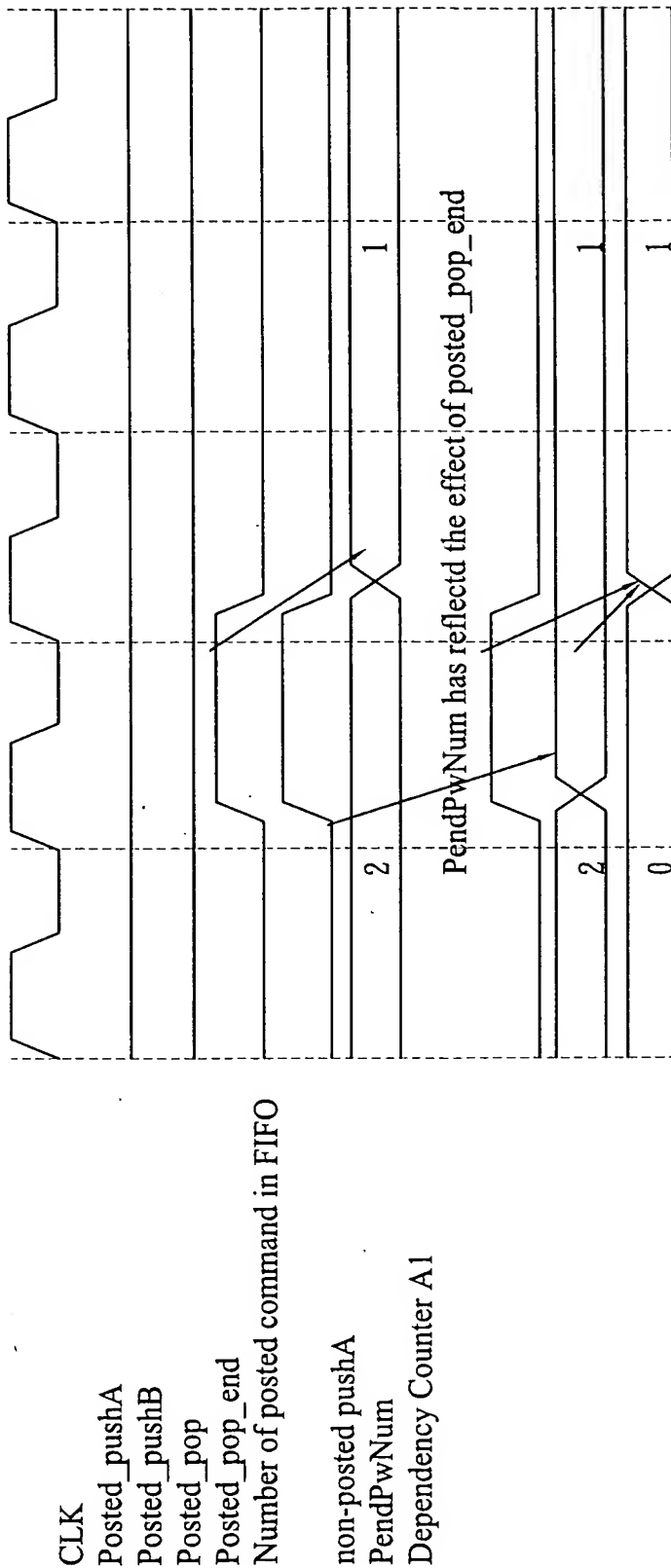


FIG. 4B-2

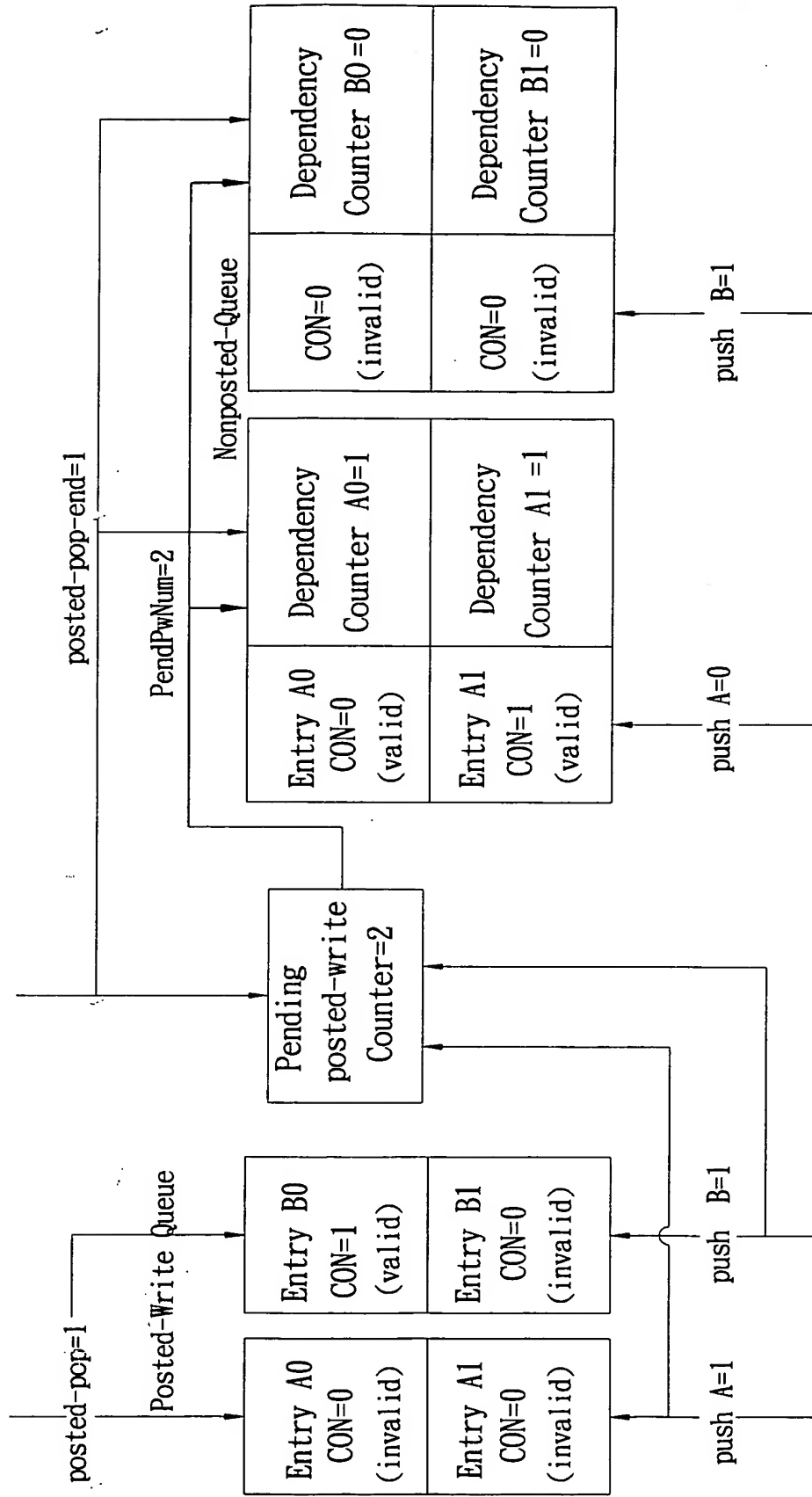


FIG. 4C-1

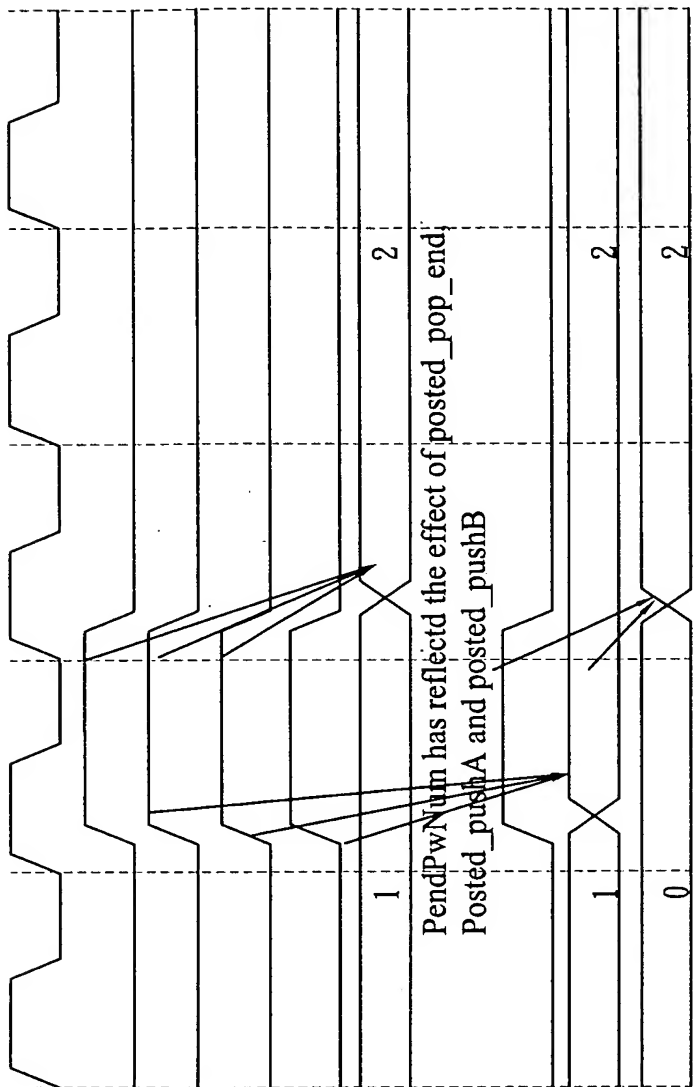


FIG. 4C-2

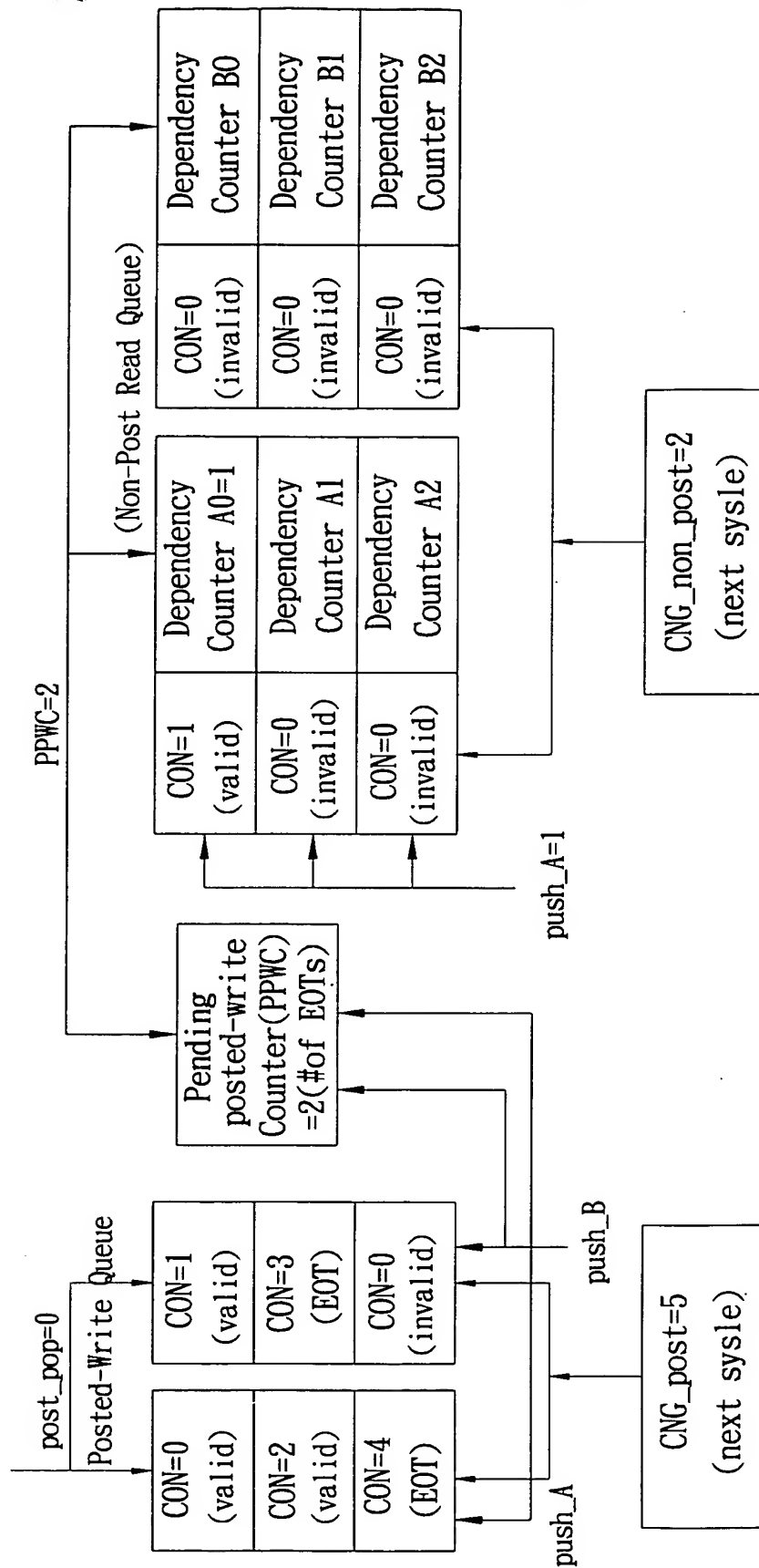
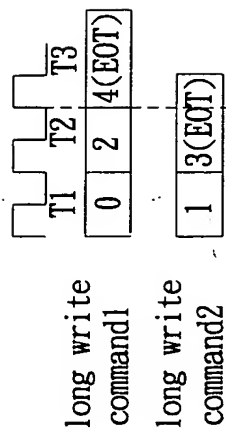


FIG. 5